

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

2

PUBLICATION NUMBER : 11287927
PUBLICATION DATE : 19-10-99

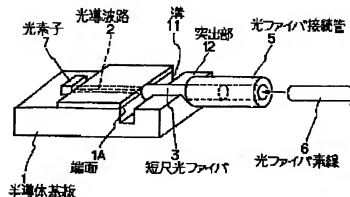
APPLICATION DATE : 03-04-98
APPLICATION NUMBER : 10091399

APPLICANT : JAPAN AVIATION ELECTRONICS IND LTD;

INVENTOR : UKECHI MITSUO;

INT.CL. : G02B 6/30 G02B 6/42 // G02B 6/36

TITLE : OPTICAL CONNECTOR FOR OPTICAL MODULE AND ITS MANUFACTURE



ABSTRACT : PROBLEM TO BE SOLVED: To provide an easy-to-assemble structure and its manufacture for the optical connector for an optical module which optically connects an optical fiber to an optical waveguide formed on a semiconductor substrate.

SOLUTION: On an end surface of the semiconductor substrate where an end part of the optical waveguide is exposed, a projection part 12 is formed across a groove 11 and a V groove 4 is formed in the projection part 12. The axis of a short optical fiber 3 inserted into the V groove and the optical axis of the optical waveguide 2 can be aligned with each other by setting the depth of the V groove to a proper value. The projection part of the short optical fiber 3 is sheathed with an optical fiber connection tube 5, which is fixed to the end surface of the semiconductor substrate to complete the assembly without performing positioning operation.

COPYRIGHT: (C)1999,JPO